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(71) Applicant  
Honda Giken Kogyo Kabushiki Kaisha (Japan),  
27-8 Jingumae 6-chome, Shibuya-ku, Tokyo 150,  
Japan

(72) Inventors  
Naomoto Uesugi,  
Shoji Suzuki

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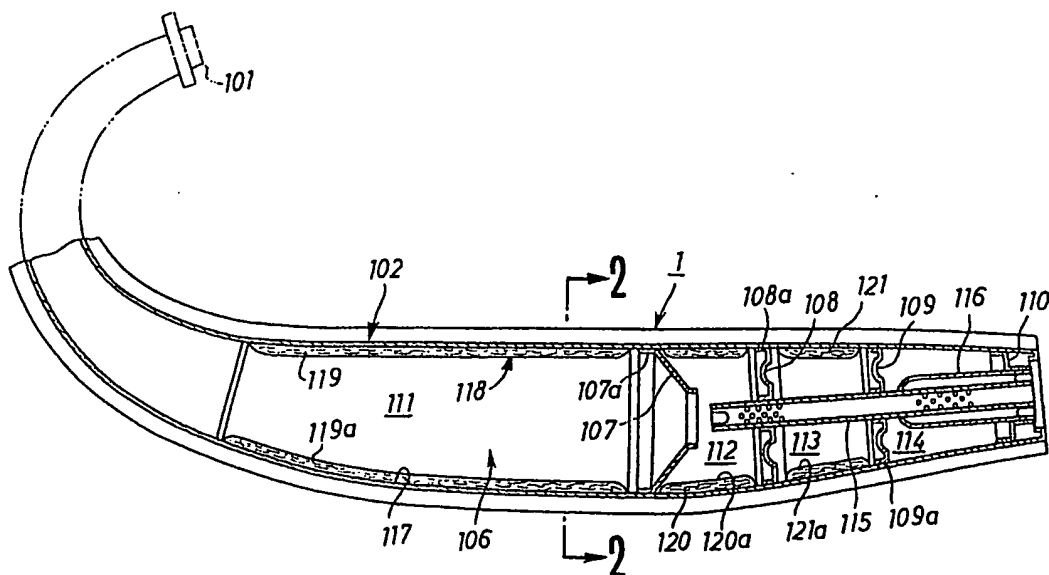
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including Jitsuyo Shinan Koho 1926-1983  
Kokai Jitsuyo Shinan Koho 1971-1983

(74) Agent and/or Address for Service  
Hasehine Lake & Co., 28 Southampton Buildings,  
Chancery Lane, London WC2A 1AT

(54) Heat and sound insulating apparatus

(57) A heat and sound insulating apparatus comprises a heat and sound insulating member constituted by a laminated structure formed by mixing ceramic fibers into long glass fibers. The inner surface of the member is completely exposed in an exhaust passage. The heat and sound insulating apparatus has an improved heat insulating effect, soundproofing effect and durability.



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